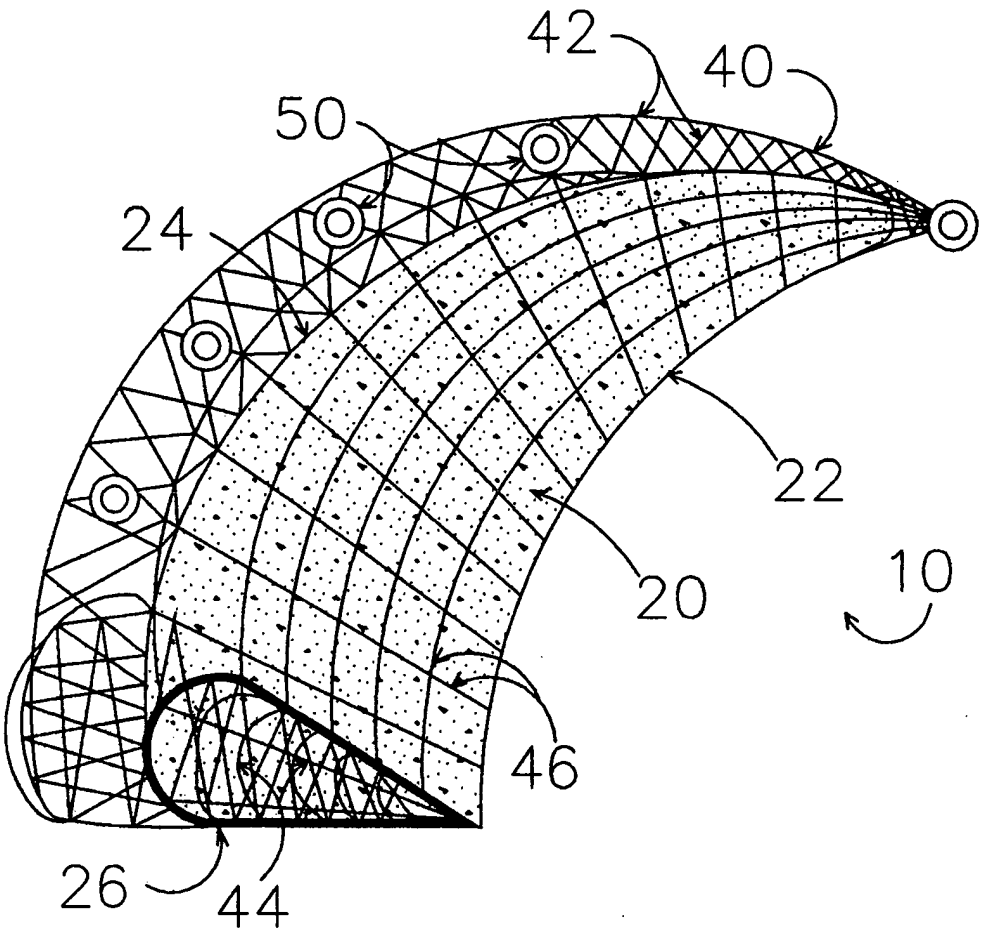
Fig. 1



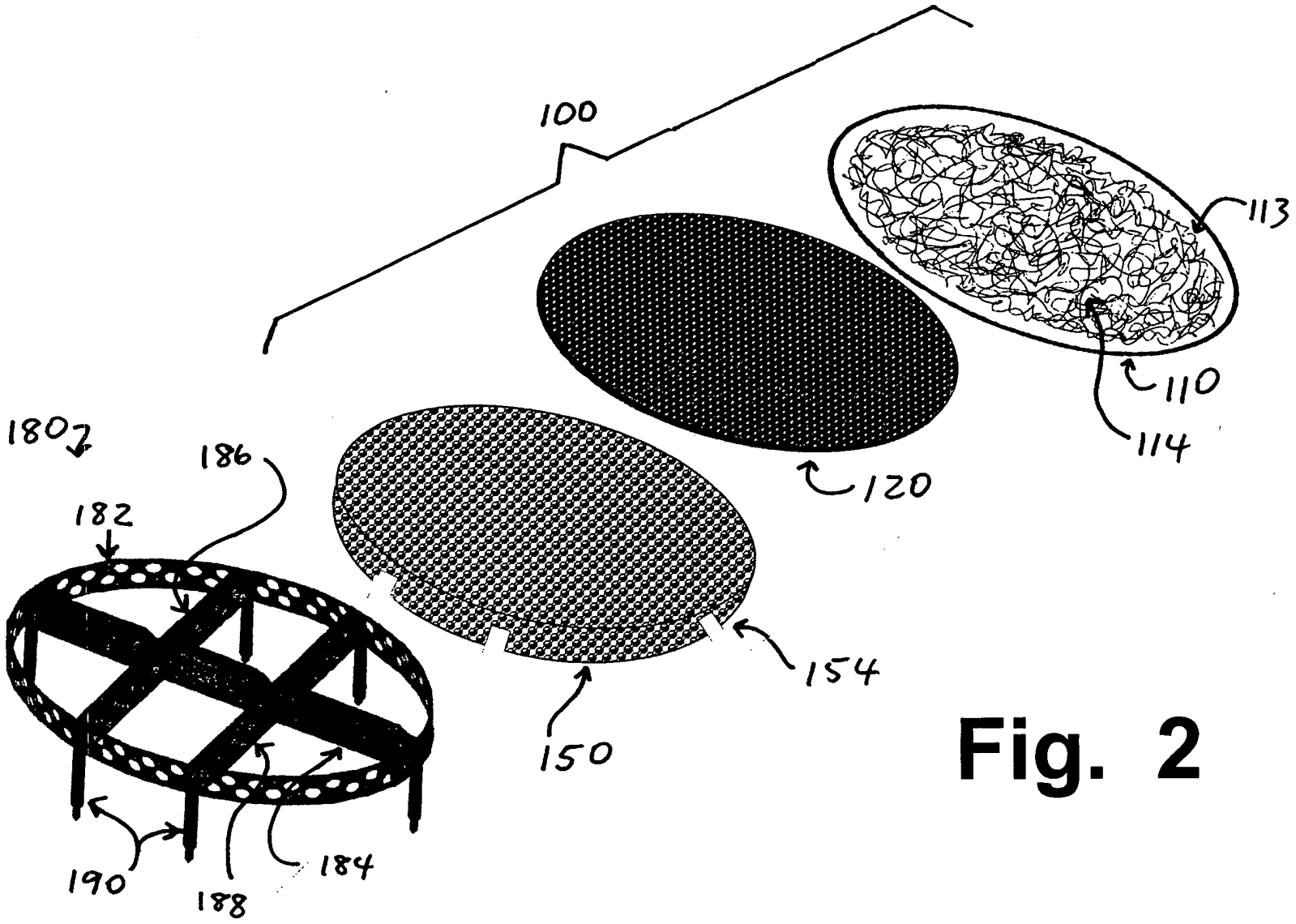


Fig. 2

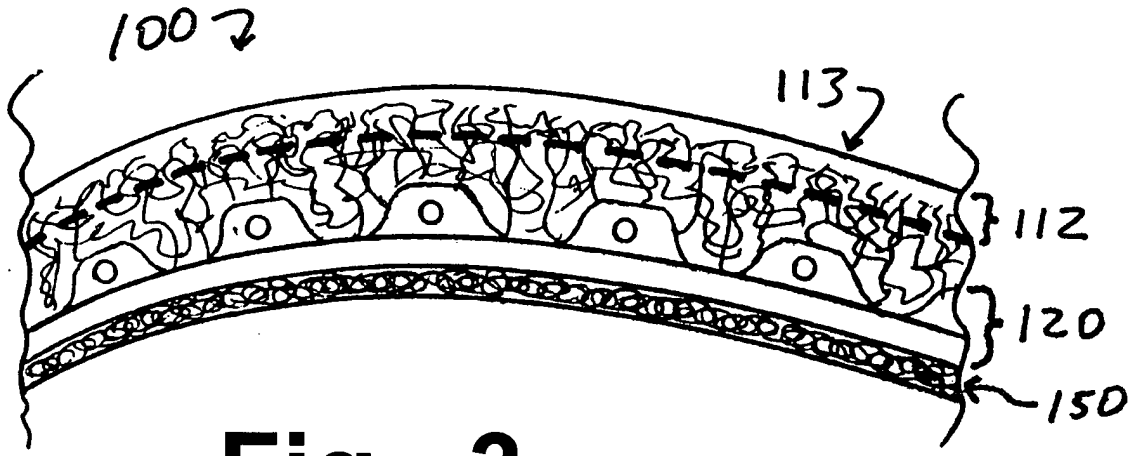
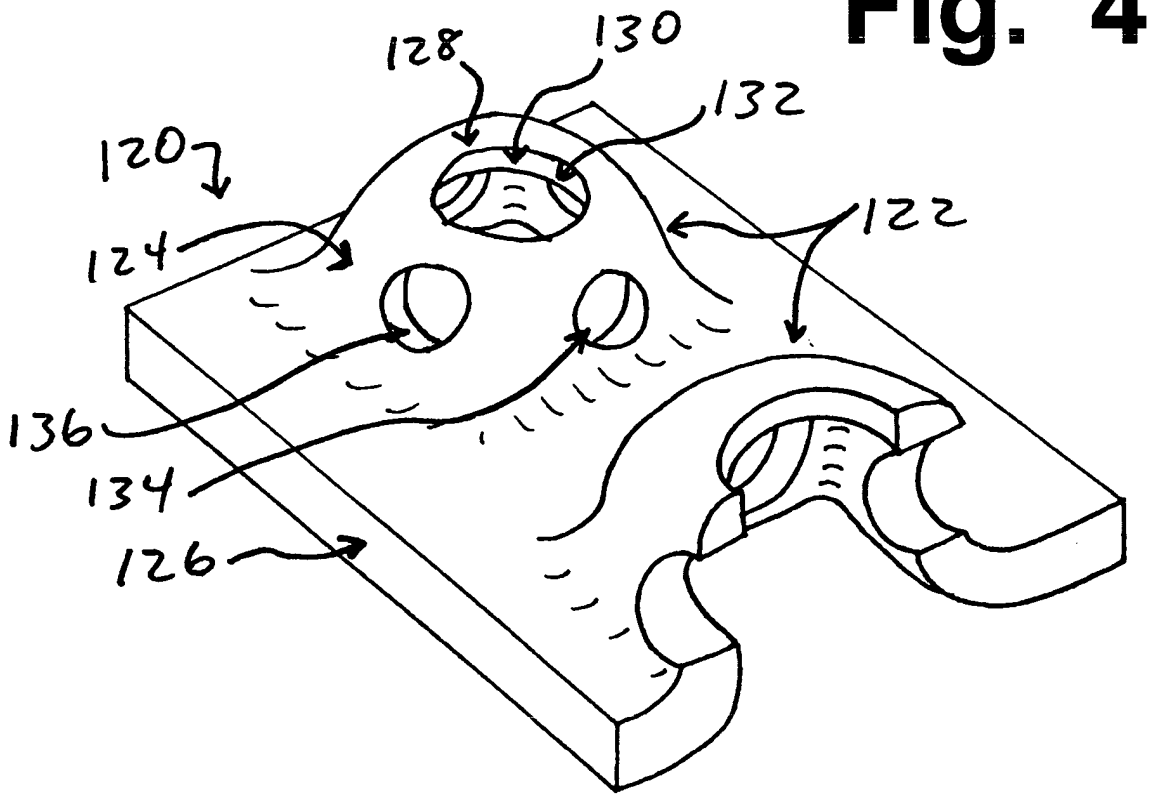


Fig. 3

Fig. 4



LEGEND:

- SAPL
- Lubricen
- Lubricen/SAPL complexes
- Hyaluronic acid
- Other macromolecules
- Semi-permeable membranes

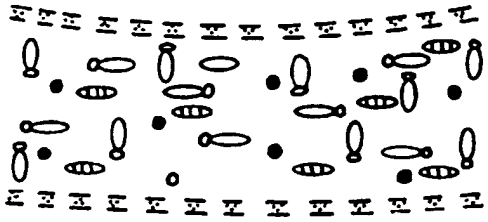


Fig. 5A
UNLOADED JOINT SPACE

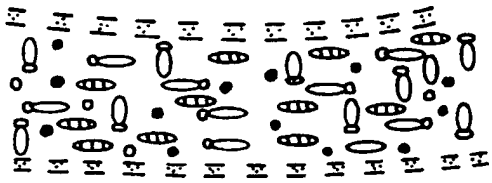


Fig. 5B
INSTANTANEOUS LOADING

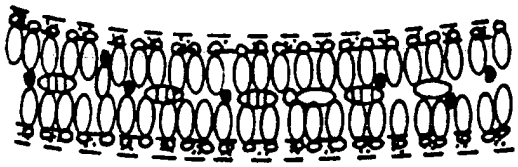


Fig. 5C
STATIC COMPRESSION

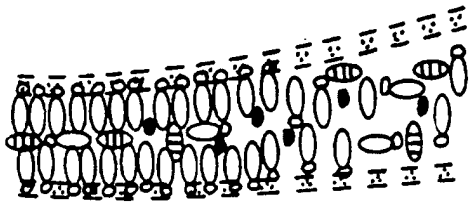


Fig. 5D
HYDROPLANING MOTION

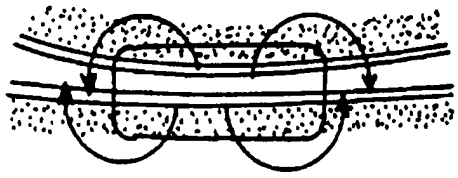


Fig. 5E
LOADED FLUID FLOW THROUGH SELECTIVELY PERMEABLE MEMBRANES